

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P#

Luminaire Tested: **8ILED-LD5-28-W-UNV-L850-CD4-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34173)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8ILED-LD5-28-W-UNV-L850-CD4-U
Description: Metalux 8' ILED WITH OPEN WIDE DISTRIBUTION

Light Source: (1) 5000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

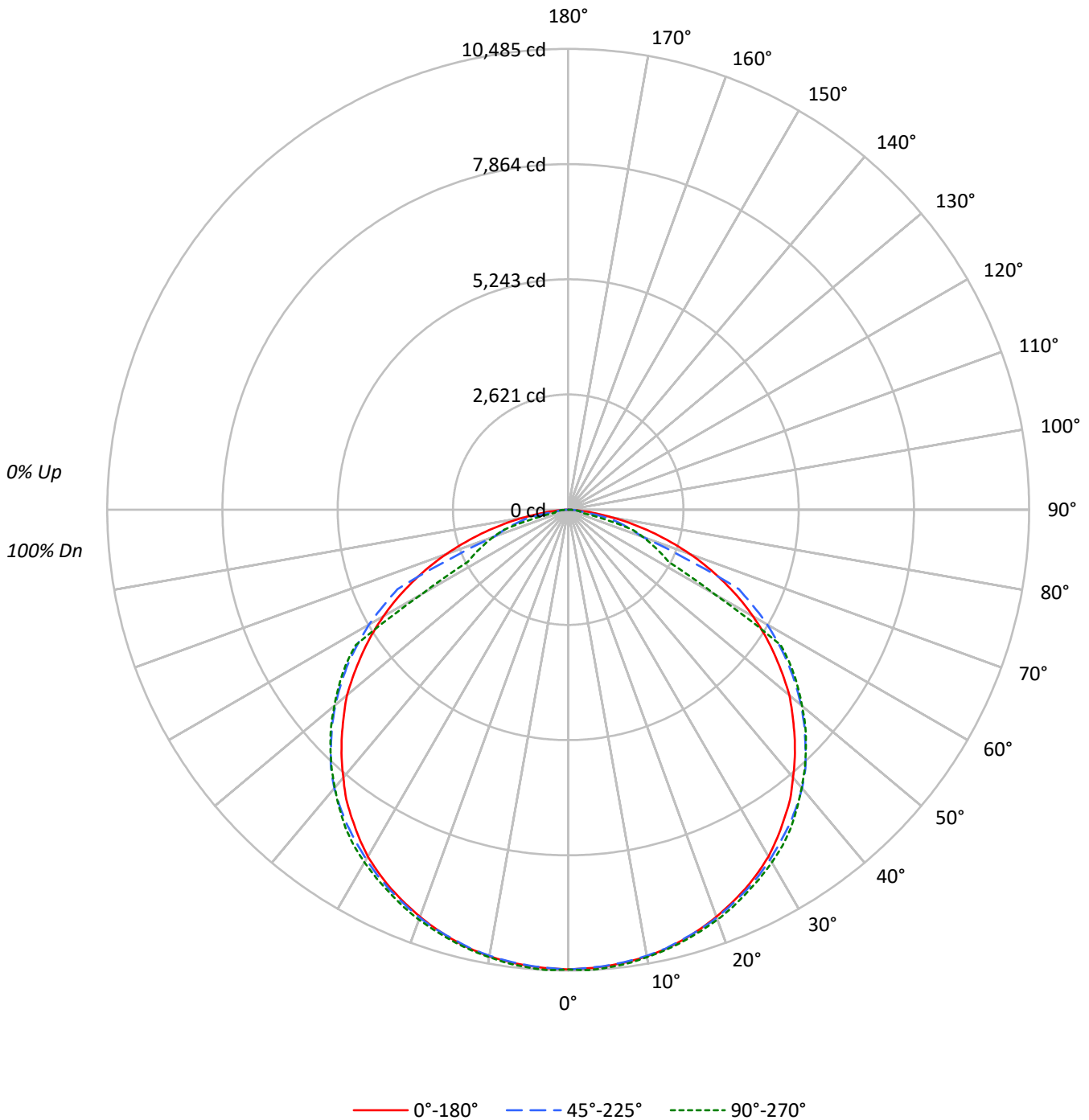
Lumens per Lamp: N/A
Luminaire Lumens: 30186.0 lumens
Efficiency: N/A
Efficacy: 148.0 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.32 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 204
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P#
CATALOG NUMBER: 8ILED-LD5-28-W-UNV-L850-CD4-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-28-W-UNV-L850-CD4-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|-----|---|--|---|
| RF | 20 | | | | | 20 | | | | | 20 | | | | | 20 | | | | | 20 | | | | | |
| RC | 80 | | | | | 70 | | | | | 50 | | | | | 30 | | | | | 10 | | | | | 0 |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | | 100 | | | |
| 1 | 109 | 105 | 101 | 97 | 107 | 103 | 99 | 96 | 98 | 95 | 93 | 95 | 92 | 90 | 91 | 89 | 87 | 85 | | | | | 85 | | | |
| 2 | 100 | 92 | 85 | 80 | 97 | 90 | 84 | 79 | 86 | 81 | 77 | 83 | 79 | 75 | 80 | 77 | 73 | 71 | | | | | 71 | | | |
| 3 | 91 | 81 | 73 | 66 | 89 | 79 | 72 | 66 | 76 | 70 | 65 | 73 | 68 | 64 | 71 | 66 | 62 | 60 | | | | | 60 | | | |
| 4 | 83 | 71 | 63 | 56 | 81 | 70 | 62 | 56 | 68 | 61 | 55 | 65 | 59 | 54 | 63 | 58 | 54 | 51 | | | | | 51 | | | |
| 5 | 77 | 64 | 55 | 48 | 74 | 63 | 54 | 48 | 61 | 53 | 48 | 59 | 52 | 47 | 57 | 51 | 47 | 44 | | | | | 44 | | | |
| 6 | 71 | 57 | 48 | 42 | 69 | 56 | 48 | 42 | 55 | 47 | 42 | 53 | 46 | 41 | 51 | 45 | 41 | 39 | | | | | 39 | | | |
| 7 | 65 | 52 | 43 | 37 | 64 | 51 | 43 | 37 | 50 | 42 | 37 | 48 | 41 | 36 | 47 | 41 | 36 | 34 | | | | | 34 | | | |
| 8 | 61 | 47 | 39 | 33 | 59 | 47 | 38 | 33 | 45 | 38 | 33 | 44 | 37 | 32 | 43 | 37 | 32 | 30 | | | | | 30 | | | |
| 9 | 57 | 43 | 35 | 30 | 55 | 43 | 35 | 30 | 42 | 34 | 29 | 41 | 34 | 29 | 39 | 33 | 29 | 27 | | | | | 27 | | | |
| 10 | 53 | 40 | 32 | 27 | 52 | 39 | 32 | 27 | 38 | 31 | 27 | 37 | 31 | 26 | 37 | 31 | 26 | 25 | | | | | 25 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 15354 | 15354 | 15354 |
| 5° | 15334 | 15224 | 15261 |
| 10° | 15346 | 15131 | 15120 |
| 15° | 15337 | 15024 | 15001 |
| 20° | 15326 | 14960 | 14914 |
| 25° | 15327 | 14887 | 14818 |
| 30° | 15331 | 14832 | 14772 |
| 35° | 15229 | 14806 | 14702 |
| 40° | 15087 | 14793 | 14501 |
| 45° | 14929 | 14588 | 14315 |
| 50° | 14781 | 14323 | 14033 |
| 55° | 14380 | 13929 | 13688 |
| 60° | 13957 | 13369 | 9504 |
| 65° | 13273 | 12570 | 6519 |
| 70° | 12220 | 6146 | 5970 |
| 75° | 10564 | 5366 | 3727 |
| 80° | 7990 | 3196 | 1523 |
| 85° | 4175 | 1627 | 1405 |



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-28-W-UNV-L850-CD4-U

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 992.3 | 3.3 |
| 10°-20° | 2865.0 | 9.5 |
| 20°-30° | 4417.4 | 14.6 |
| 30°-40° | 5469.9 | 18.1 |
| 40°-50° | 5822.8 | 19.3 |
| 50°-60° | 5373.0 | 17.8 |
| 60°-70° | 3440.2 | 11.4 |
| 70°-80° | 1549.6 | 5.1 |
| 80°-90° | 255.9 | 0.8 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 8274.7 | 27.4 |
| 0°-40° | 13744.6 | 45.5 |
| 0°-60° | 24940.4 | 82.6 |
| 0°-90° | 30186.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 30186.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 10460 | 10460 | 10460 | 10460 | 10460 | |
| 5° | 10419 | 10435 | 10410 | 10440 | 10456 | 991 |
| 15° | 10127 | 10144 | 10114 | 10164 | 10160 | 2860 |
| 25° | 9519 | 9544 | 9560 | 9623 | 9615 | 4390 |
| 35° | 8573 | 8661 | 8761 | 8852 | 8832 | 5366 |
| 45° | 7282 | 7432 | 7632 | 7682 | 7648 | 5618 |
| 55° | 5720 | 5928 | 6111 | 6211 | 6182 | 5115 |
| 65° | 3924 | 4112 | 4287 | 2366 | 2316 | 3875 |
| 75° | 1950 | 2120 | 1250 | 1283 | 925 | 2072 |
| 85° | 283 | 212 | 192 | 204 | 188 | 413 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-28-W-UNV-L850-CD4-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|---------|---------|---------|---------|---------|
| 0° | 10460.3 | 10460.3 | 10460.3 | 10460.3 | 10460.3 |
| 2.5° | 10443.6 | 10464.5 | 10435.3 | 10464.5 | 10485.3 |
| 5° | 10418.6 | 10435.3 | 10410.3 | 10439.5 | 10456.1 |
| 7.5° | 10377.0 | 10393.6 | 10364.5 | 10393.6 | 10410.3 |
| 10° | 10318.7 | 10327.0 | 10306.2 | 10335.3 | 10339.5 |
| 12.5° | 10235.3 | 10243.7 | 10227.0 | 10256.2 | 10260.3 |
| 15° | 10127.0 | 10143.7 | 10114.5 | 10164.5 | 10160.4 |
| 17.5° | 10002.1 | 10018.7 | 10006.2 | 10043.7 | 10047.9 |
| 20° | 9856.2 | 9872.9 | 9877.1 | 9922.9 | 9927.1 |
| 22.5° | 9693.8 | 9718.8 | 9722.9 | 9785.4 | 9781.3 |
| 25° | 9518.8 | 9543.8 | 9560.5 | 9623.0 | 9614.6 |
| 27.5° | 9327.2 | 9360.5 | 9385.5 | 9448.0 | 9448.0 |
| 30° | 9110.6 | 9156.4 | 9185.6 | 9268.9 | 9264.7 |
| 32.5° | 8852.3 | 8939.8 | 8973.1 | 9077.2 | 9068.9 |
| 35° | 8573.2 | 8660.7 | 8760.6 | 8852.3 | 8831.5 |
| 37.5° | 8298.2 | 8385.7 | 8523.2 | 8577.4 | 8552.4 |
| 40° | 7956.7 | 8102.5 | 8277.4 | 8298.2 | 8260.8 |
| 42.5° | 7631.7 | 7748.4 | 7985.8 | 7998.3 | 7965.0 |
| 45° | 7281.8 | 7431.8 | 7631.7 | 7681.7 | 7648.4 |
| 47.5° | 6919.4 | 7048.5 | 7281.8 | 7344.3 | 7319.3 |
| 50° | 6569.4 | 6686.1 | 6915.2 | 6977.7 | 6944.4 |
| 52.5° | 6140.4 | 6315.3 | 6511.1 | 6611.1 | 6573.6 |
| 55° | 5719.6 | 5927.9 | 6111.2 | 6211.2 | 6182.0 |
| 57.5° | 5298.9 | 5528.0 | 5665.5 | 5802.9 | 5732.1 |
| 60° | 4857.3 | 5082.3 | 5232.2 | 5169.7 | 3849.2 |
| 62.5° | 4399.1 | 4615.7 | 4740.7 | 3178.5 | 2578.6 |
| 65° | 3924.2 | 4111.6 | 4286.6 | 2366.2 | 2316.2 |
| 67.5° | 3440.9 | 3628.4 | 2853.6 | 2103.7 | 2057.9 |
| 70° | 2945.2 | 3120.2 | 1770.5 | 1832.9 | 1808.0 |
| 72.5° | 2445.3 | 2611.9 | 1520.5 | 1591.3 | 1558.0 |
| 75° | 1949.6 | 2120.4 | 1249.7 | 1283.1 | 924.8 |
| 77.5° | 1487.2 | 1462.2 | 1008.1 | 708.2 | 316.6 |
| 80° | 1012.3 | 674.9 | 562.4 | 295.8 | 291.6 |
| 82.5° | 629.0 | 454.1 | 237.4 | 262.4 | 258.3 |
| 85° | 283.3 | 212.5 | 191.6 | 204.1 | 187.5 |
| 87.5° | 100.0 | 104.1 | 116.6 | 108.3 | 100.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)